NOVA SCOTIA
Natural Resources

CALL FOR PROPOSALS

FOR

EXPLORATION, DEVELOPMENT AND RECLAMATION

OF

SELECTED AREAS OF THE SYDNEY COALFIELD

CAPE BRETON COUNTY, NOVA SCOTIA

December 5, 2003

Honourable Richard Hurlburt
Minister, Natural Resources

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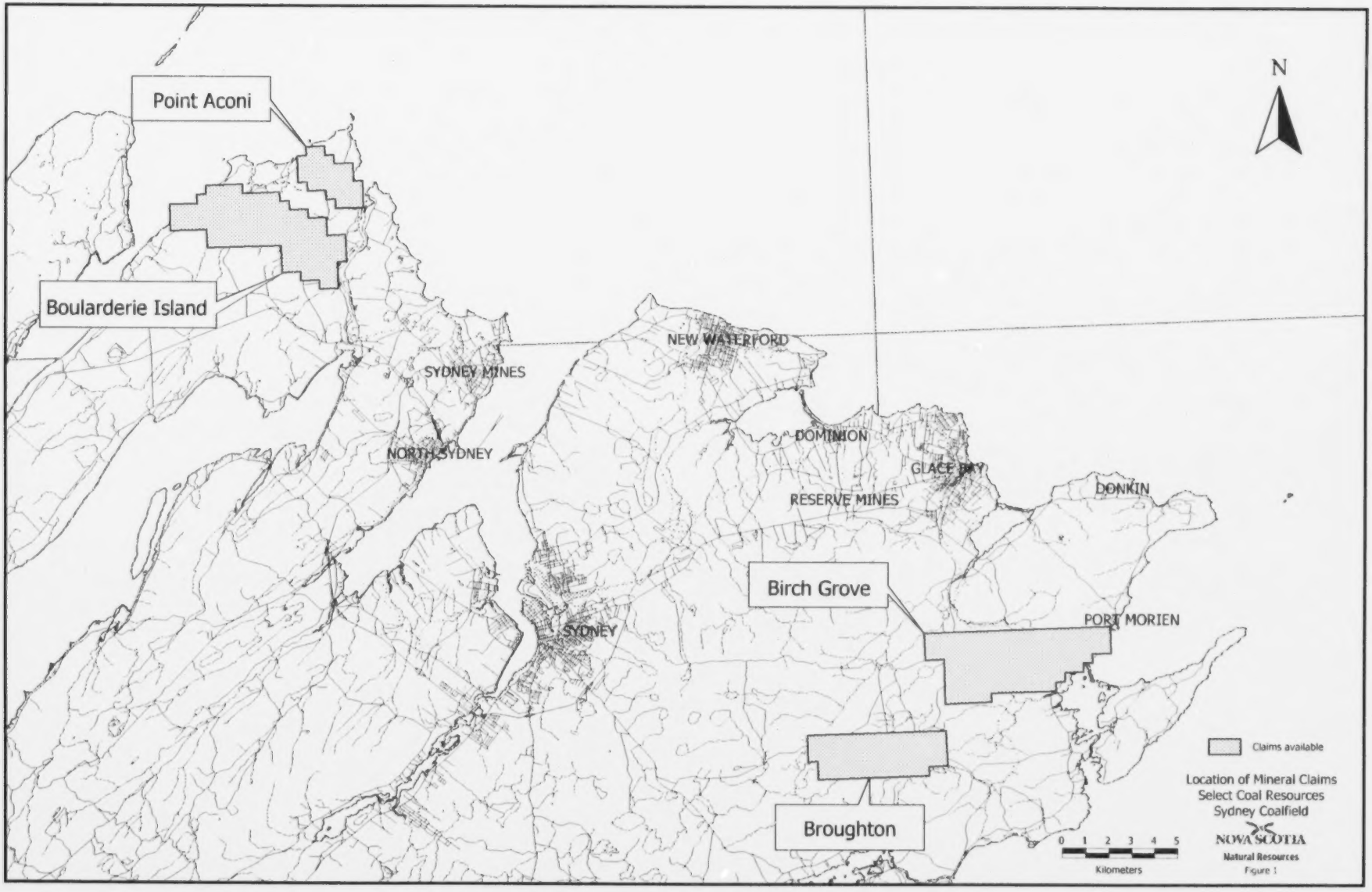
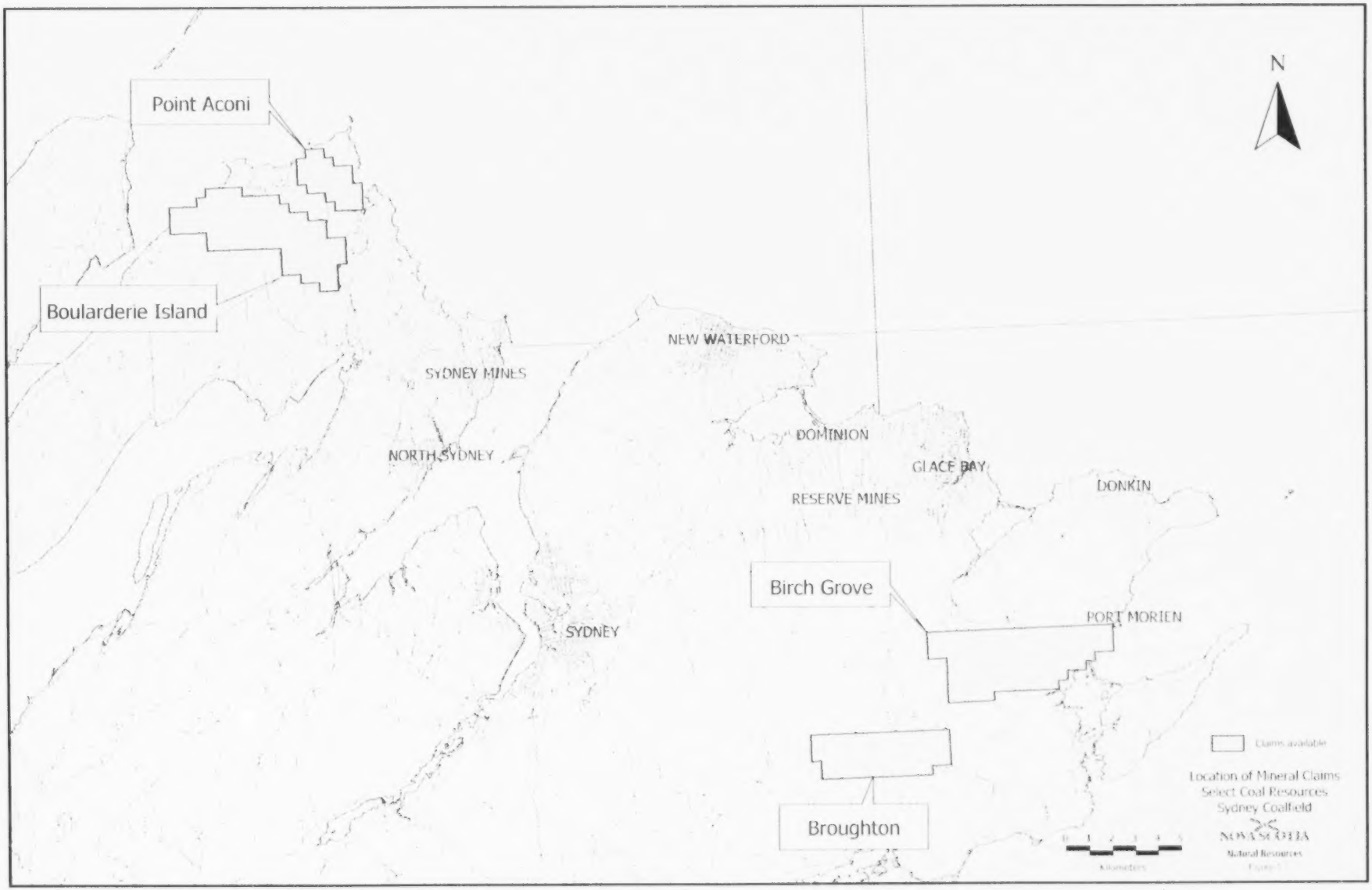
1.0 Introduction

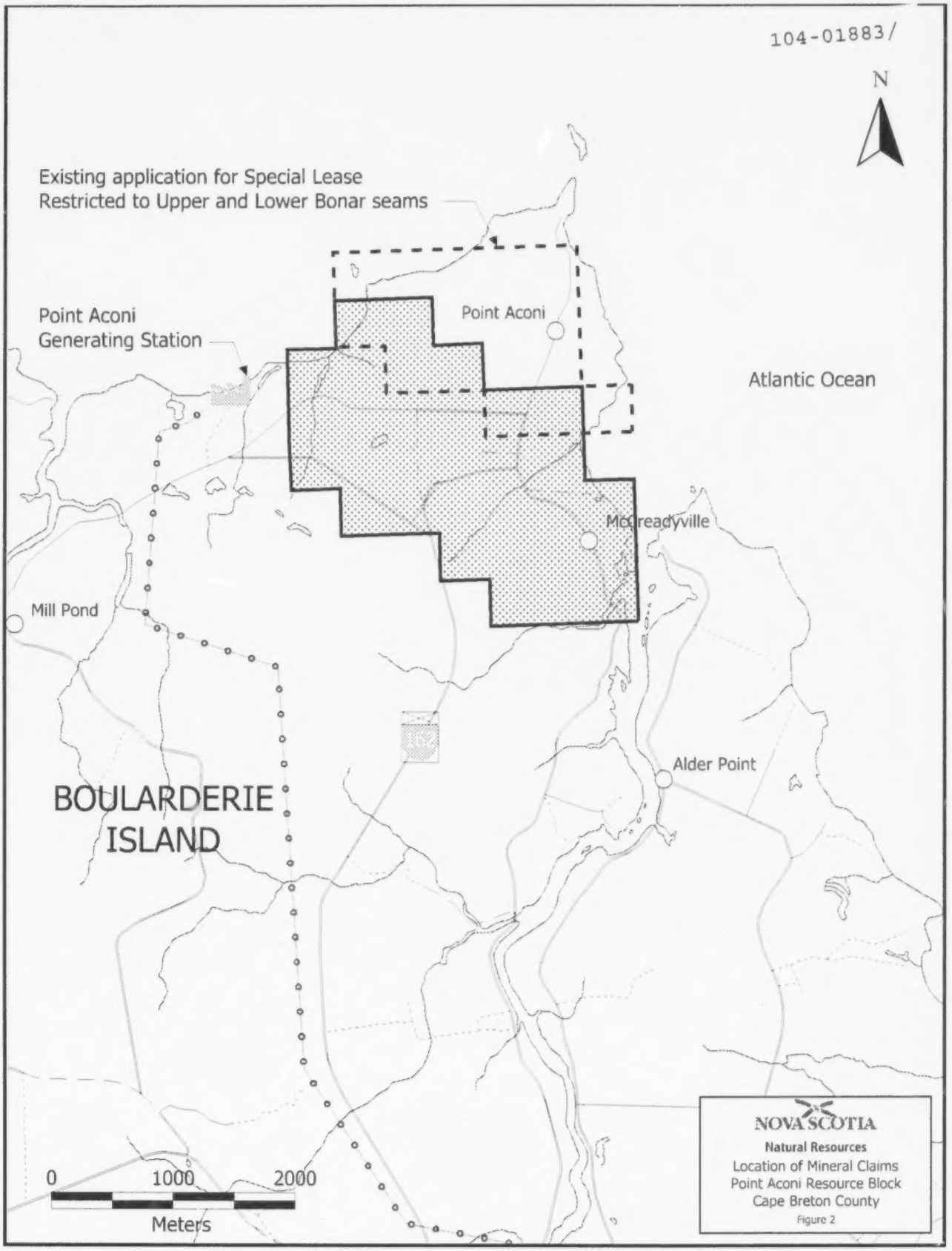
The Nova Scotia Department of Natural Resources is accepting proposals from interested proponents for the exploration, development and reclamation of selected coal resources within the Sydney Coalfield that may be extracted by surface mining techniques (Figure 1). Successful bidders will be provided the exclusive right to apply for mineral tenure for the coal resource areas being tendered in Point Aconi, Boularderie Island, Birch Grove and Broughton.

The areas being made available are described below and are shown in Figures 2 to 9.

	Area	Map	Tract	Claims
Figure 2	Point Aconi,	11K/08 B	50	D E M
	Area of the Prince Mine		51	AB FGH JKLM NOPQ
			52	J PQ
			69	AB GH J
			70	ABCD EF M
Figure 4	Boularderie Island	11K/08 B	22	NO
			27	CD EF KLM NOP
			28	AB EFGH JKLM NOPQ
			42	JKLM NOPQ
			43	all claims
			44	all claims
			45	ABCD EFGH JKLM NOP
			46	BCD E M
			52	D
			53	ABCD EFGH
			54	ABCD EFGH JKLM
			55	ABCD H
Figure 6	Birch Grove	11J/04 B	86	JK PQ
			87	KLM NOPQ
			88	NOPQ
			89	NO
			103	E LM NOPQ
			104	BCD EFGH JKLM NOPQ
			105	all claims
			106	all claims
			107	AB GH JK NOPQ
		11J/04 C	7	ABCD EFGH
			8	ABCD EFGH
			9	ABCD EFGH
			10	ABCD EFGH
			11	ABCD EFGH
Figure 8	Broughton	11J/04 B	61	JKLM NOPQ
			62	NO
			83	CD EF LM
			84	ABCD EFGH JKLM
		11K/01 A	71	JKLM NOPQ
			72	JKLM NOPQ
			73	ABCD EFGH JKLM
			74	ABCD EFGH JKLM
			75	A H J


Point Aconi
Boularderie Island
SYDNEY MINES
NORTH SYDNEY
SYDNEY
NEW WATERFORD
DOMINION
GLACE BAY
RESERVE MINES
DONKIN
PORT MORIEN
Birch Grove
Broughton
N
Claims available
Location of Mineral Claims
Select Coal Resources
Sydney Coalfield
NOVA SCOTIA
Natural Resources
Figure 1
0 1 2 3 4 5
Kilometers


N
Point Aconi
Boularderie Island
NEW WATERFORD
SYDNEY MINES
DOMINION
NORTH SYDNEY
GLACE BAY
DONKIN
RESERVE MINES
Birch Grove
PORT MORIEN
SYDNEY
Broughton
Claims available
Location of Mineral Claims
Select Coal Resources
Sydney Coalfield
NOVA SCOTIA
Natural Resources
Kilometers


N
Existing application for Special Lease
Restricted to Upper and Lower Bonar seams
Point Aconi
Generating Station
Point Aconi
Atlantic Ocean
McCreadyville
Mill Pond
Alder Point
BOULARDERIE
ISLAND
0
1000
2000
Meters
NOVA SCOTIA
Natural Resources
Location of Mineral Claims
Point Aconi Resource Block
Cape Breton County
Figure 2

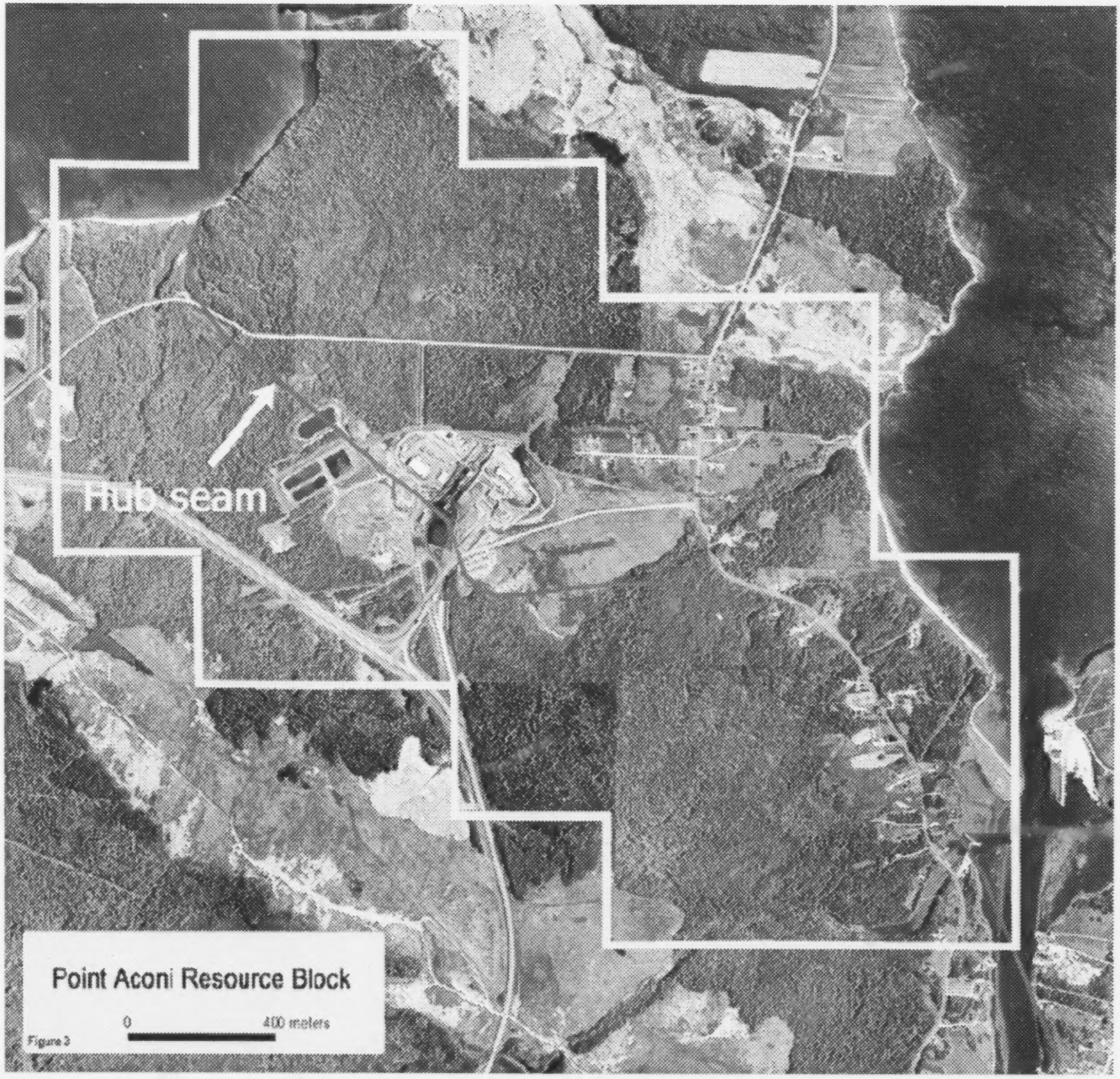
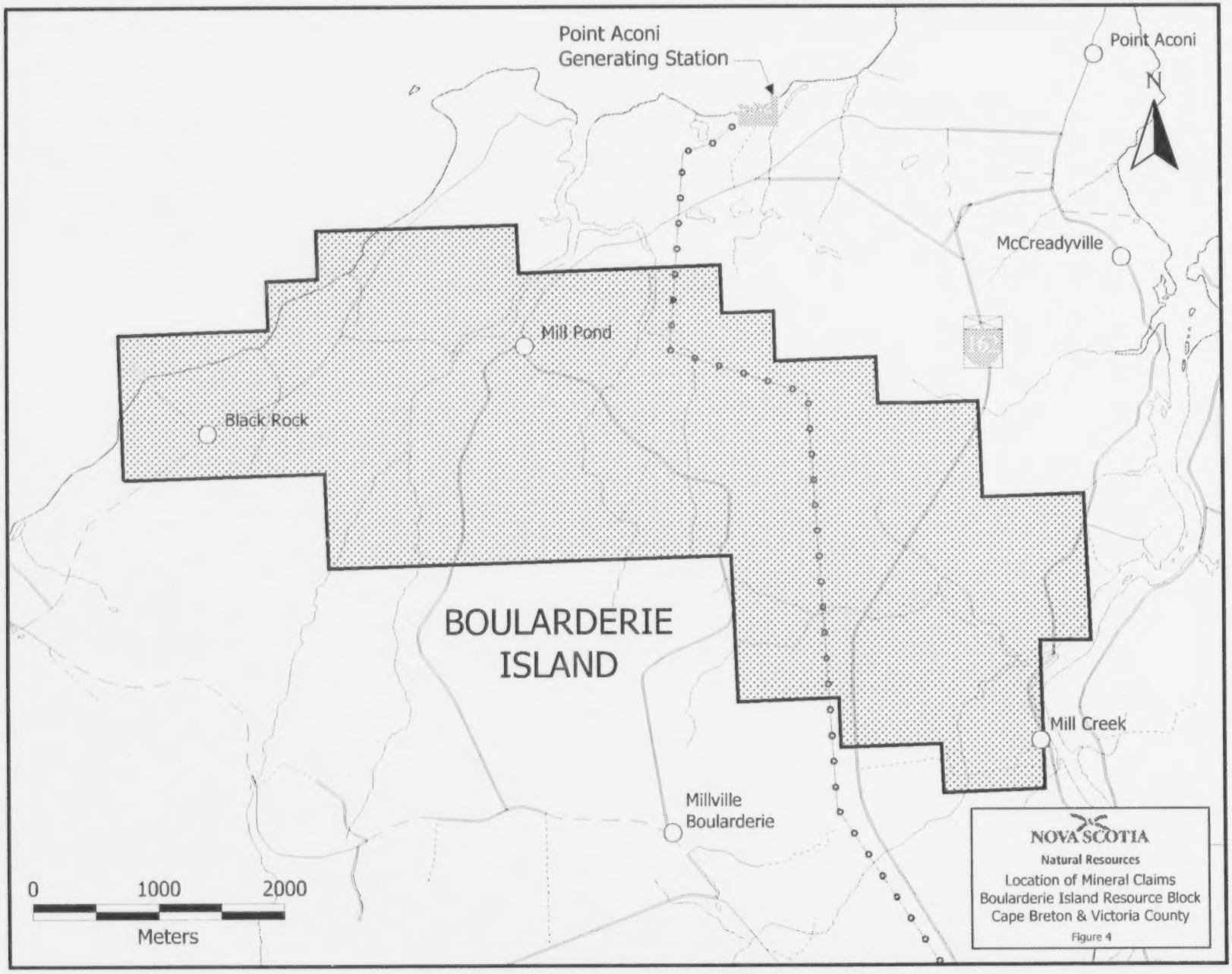
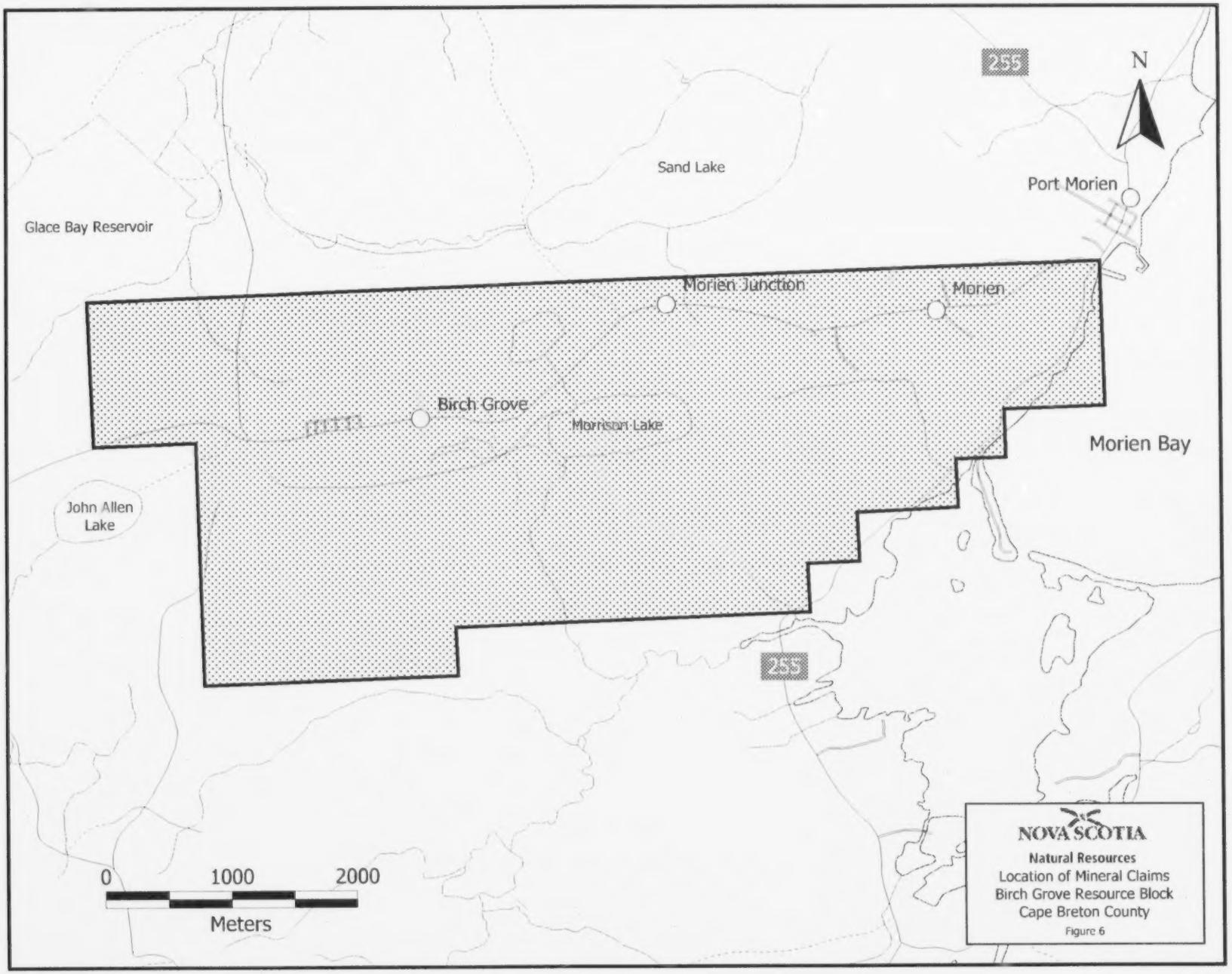


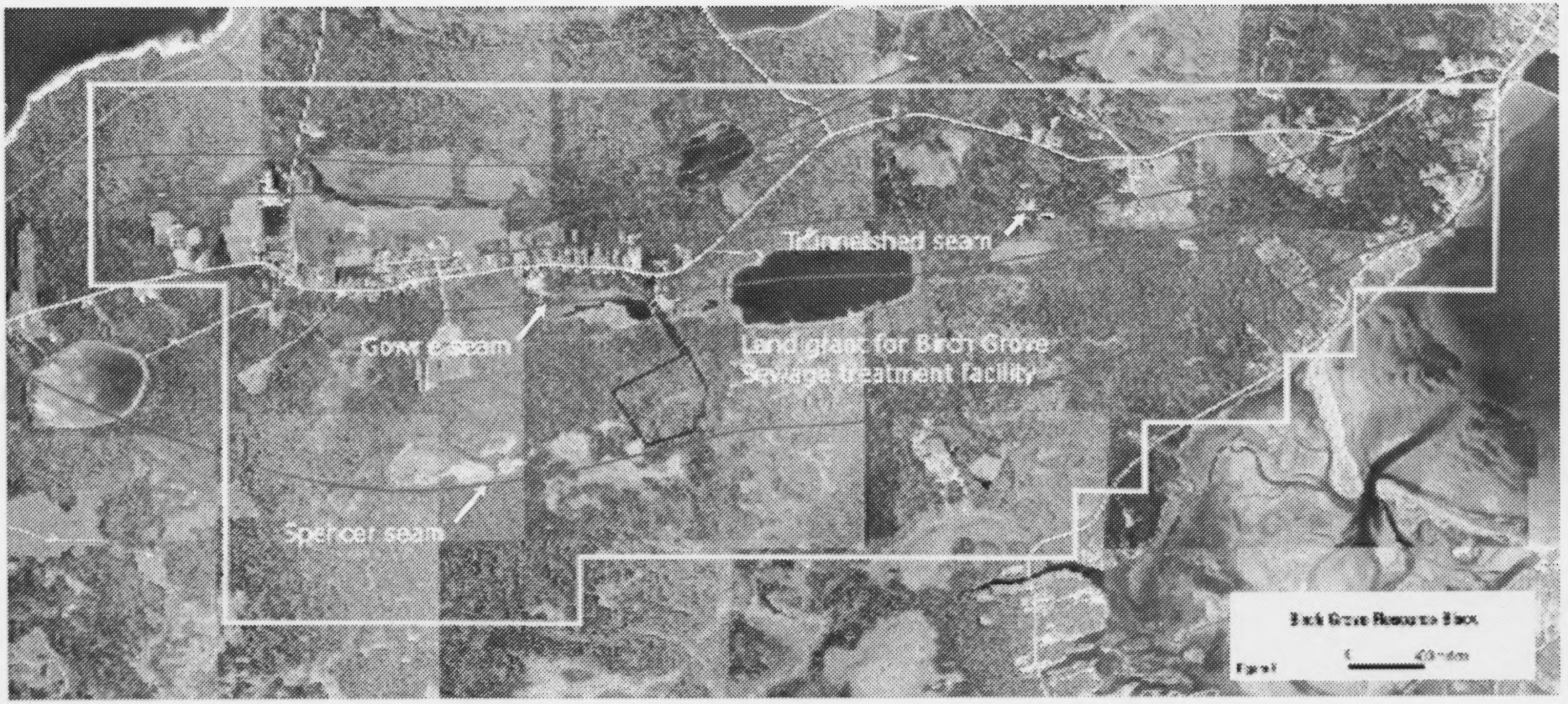
Figure 3

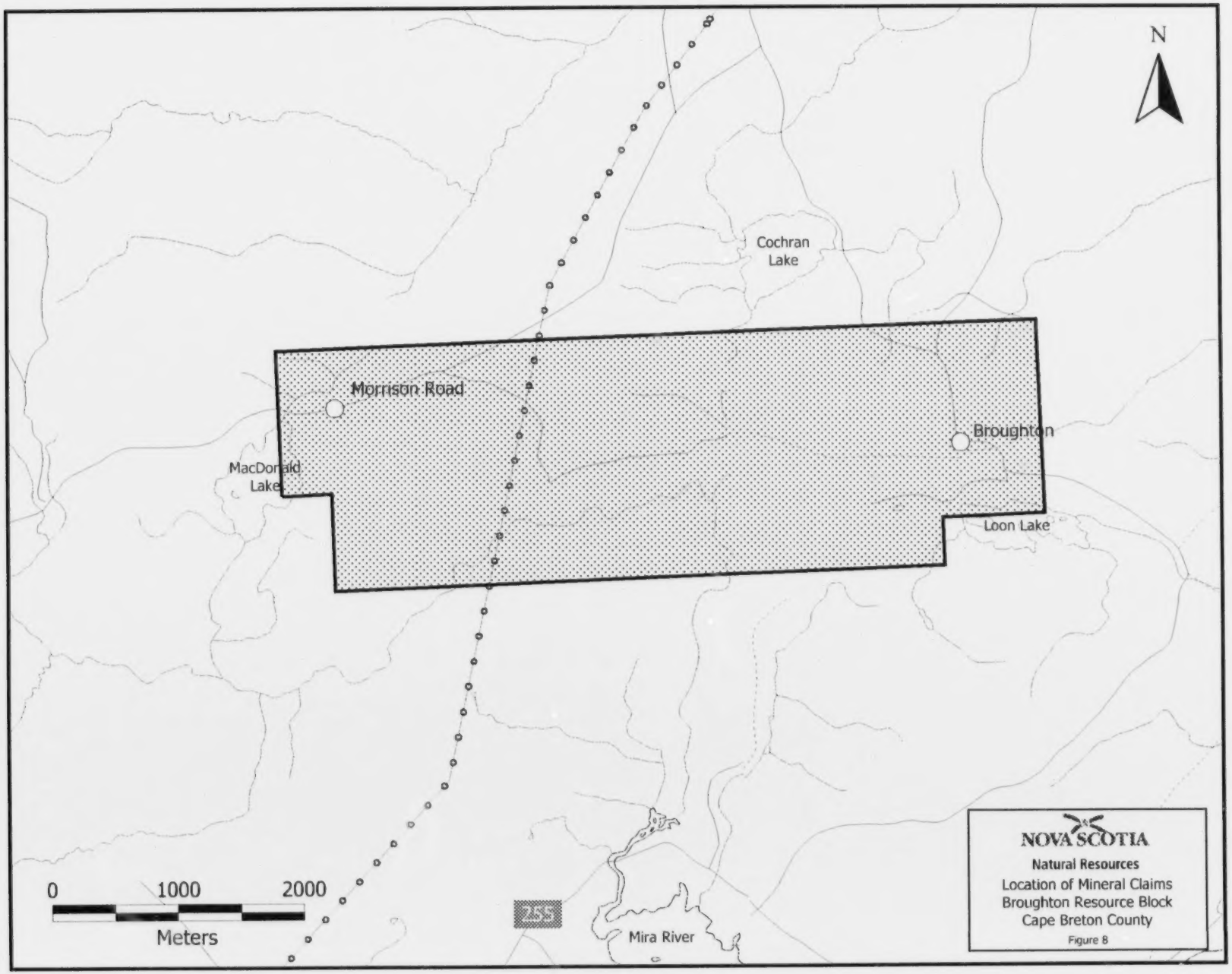

Point Aconi
Generating Station
Point Aconi
N
McCreadyville
Mill Pond
Black Rock
BOULARDERIE
ISLAND
Mill Creek
Millville
Boularderie
0
1000
2000
Meters
NOVA SCOTIA
Natural Resources
Location of Mineral Claims
Boularderie Island Resource Block
Cape Breton & Victoria County
Figure 4

Millpond seam
Indian Cove seam
Phalen seam
Boularderie Island Resource Block

Millpond Seam
Indian Cove Seam
Thistle Seam


255
N
Sand Lake
Port Morien
Glace Bay Reservoir
Morien Junction
Morien
Birch Grove
Morrison Lake
Morien Bay
John Allen Lake
255
0
1000
2000
Meters
NOVA SCOTIA
Natural Resources
Location of Mineral Claims
Birch Grove Resource Block
Cape Breton County
Figure 6


Trimsaran seam
Gowerseam
Land plant for Birch Grove
Sewage treatment facility
Spencer seam


N
Cochran Lake
Morrison Road
Broughton
MacDonald Lake
Loon Lake
0
1000
2000
Meters
255
Mira River
NOVA SCOTIA
Natural Resources
Location of Mineral Claims
Broughton Resource Block
Cape Breton County
Figure 8

MacDonald Lake seam
Tracy seam

MacDonald Lake Steam

1.1 Background

The Sydney Coalfield contains the largest coal resource in Eastern Canada. Twelve (12) major coal seams occur in the Sydney Coalfield. Their average thickness varies from 0.9 metres to 2.1 metres (with local areas up to 3 metres). Eleven (11) seams have been documented as being mined at one time or another.

With the cessation of coal mining activities by the Cape Breton Development Corporation (Devco), the mineral rights to areas previously held by Devco were surrendered (Special Lease No. 90-2, July 2003). The Nova Scotia Department of Natural Resources has developed an open tendering process to allow interested parties to make proposals for the orderly exploration, development and reclamation of four (4) coal resource areas.

Many areas of the Sydney Coalfield have been evaluated for near surface and underground coal resources by various government departments, agencies, Crown corporations and the private sector. In the 1970's, resource estimates were completed for potential development by the provincial Crown corporation NOVACO. These resource estimates were based on exploratory drill holes, documented mine plans from underground and surface operations and other information that pertains to the resource (for example, evidence of bootleg pits or other indications of coal outcrops).

Proponents should recognize that portions of the areas under consideration in this Call for Proposals may have been subject to underground mining either by authorized operators or by illegal "bootleg" mining. These mines typically employed a "room and pillar" mining method where significant coal resources were left in the ground as support pillars. Past mining activity, especially bootleg mines, may not be well documented and could significantly reduce resources that have been estimated by the Department of Natural Resources for this Call for Proposals. The presence of near surface underground mine workings in some areas could make these areas structurally unstable, thereby limiting current land use opportunities. Also, some areas may contain hazardous mine openings (shafts, portals, etc.) or other unstable features. Any proposed work plans developed in response to this Call for Proposals must include consideration of these potential issues. The removal of hazardous mine openings and the stabilization of undermined areas is considered to be a significant benefit to the development and reclamation of some areas of the Sydney Coalfield that are impacted by historical mining activity.

Proposals made in response to this Call for Proposals will be assessed based on overall project feasibility, as well as economic, environmental and land use benefits for the local area and the Province. The factors considered will include, but will not be limited to, the criteria outlined in *Section 2.2 Proposal Content and Format*.

1.2 Point Aconi Resource Block

The mineral claims available in the Point Aconi Resource Block are shown in Figures 2 and 3. The Cape Breton Development Corporation developed and operated a surface mine and an underground mine on the Hub Seam. The MacNeil Surface Mine extracted coal from the Hub Seam in the mid 1970's southeast of the location of the Prince Mine portals. Devco extracted a portion of the surface coal resources through excavation of a "box cut" to establish the Prince Mine portals. The Hub Seam, in this area, is reported to be up to 2.1 metres in thickness.

The Hub Seam near surface coal resource is not well defined by a standard pattern of exploration drill holes. The location and characteristics of the seam are defined by past mining activity along the coal outcrop. There has been no published resource inventory for the near surface resources of the Hub Seam in Point Aconi; however, the Department believes a resource can be inferred based on existing information. The impact of previous mining activity (legal and bootleg) on this seam could significantly impact the volume of coal remaining in this resource block.

Point Aconi Resource Block					
Seam	Thickness	Dip	Tonnes	Sulphur	Ash
Hub	2.1m	4 °	undefined	5.0 %	16.5 %

Note: There is an existing application for a Special Lease (coal) for the Upper and Lower Bonar Seams which partially overlaps the Point Aconi Resource Block. The Department does not anticipate any conflicts in this overlap area. Proponents will need to address any possible issues they might anticipate between their proposal and the pre-existing application for a Special Lease on the Bonar Seams.

1.3 Boularderie Island Resource Block

The mineral claims available in the Boularderie Island Resource Block are shown in Figures 4 and 5. This resource block contains the Mill Pond, Indian Cove, and Collins (Phalen) Seams. Coal resources have been evaluated and are summarized in the Nova Scotia Department of Mines and Energy (NSDME) report entitled "Surface Coal Deposit Inventory Report, January 23, 1991" as follows:

Boularderie Island Resource Block					
Seam	Thickness	Dip	Tonnes	Sulphur	Ash
Mill Pond	0.95m	7 °	870,000	7.0 %	20.7 %
Indian Cove	0.95m	7 °	1,420,000	7.4 %	22.8 %
Collins (Phalen)	0.3 - 0.7m	6 °	210,000	6.0 %	12.0 %
Total			2,500,000	7.1 %	21.2 %

1.4 Birch Grove Resource Block

The mineral claims available in the Birch Grove Resource Block are shown in Figures 6 and 7. This resource block is primarily defined by the Spencer Seam, however there are at least two (2) other seams (Gowrie and Trunnelshed) that may warrant evaluation for overall resource definition.

The resource evaluation for the Spencer Seam is summarized in the NSDME report "Surface Coal Deposit Inventory Report, January 23, 1991" and reported below. The report notes extensive bootleg workings and recommends further investigation of other coal seams in the immediate area. The Dominion Coal Company sank an exploratory shaft and slope along the outcrop of the Spencer Seam but did not continue mine development on the seam.

Birch Grove Resource Block					
Seam	Thickness	Dip	Tonnes	Sulphur	Ash
Spencer	0.95 - 1.2m	7 °	1,760,000	3.5 %	8.8 %

1.5 Broughton Resource Block

The mineral claims available in the Broughton Resource Block are shown in Figures 8 and 9. This resource block is defined by the Tracy Seam, however another seam (MacDonald Lake) may warrant further evaluation for overall resource definition. In this Call for Proposals, the resource defined on the Tracy Seam between Loon Lake and MacDonald Lake is being made available for proposals. There are documented underground mine workings in this area.

Resource evaluation results are summarized in the NSDME "Surface Coal Deposit Inventory Report, January 23, 1991" and reported below. The inventory report recommends further investigation of other coal seams in the immediate area.

Broughton Resource Block					
Seam	Thickness	Dip	Tonnes	Sulphur	Ash
Tracy	1.2m	10 °	1,400,000	>6 %	11-14 %

2.0 Call for Proposals

The process for tendering the mineral rights for these coal resource areas is outlined as follows.

2.1 Purpose

The purpose of this Call for Proposals is to seek exploration, development and reclamation proposals from qualified proponents interested in evaluating the coal resource and developing a mining plan for one or more of the four (4) coal resource blocks identified in Figures 1 through 9. Interested parties are being provided an opportunity to assess each resource block and submit a proposal that provides the best overall resource assessment and an optimized mining and reclamation plan for the project area(s). Proponents who wish to bid on more than one of the defined resource blocks in this Call for Proposals will need to submit individual proposals for each area.

The coal resource areas included in this Call for Proposals are defined by the occurrence of coal seam outcrops or subcrops. The Department understands and acknowledges that some of the identified coal resource areas may have constraints that will need to be addressed in any proposal for mining. These constraints may include, but are not limited to, existing land uses, potential environmental sensitivities, previous mining activity, etc. Proponents submitting proposals are required to investigate and report how these constraints will affect the overall project development opportunities.

The selected proponent(s) will be required to obtain a "Special License" or "Special Lease" from the Department of Natural Resources within one (1) year of Department's acceptance of their proposal.

2.2 Proposal Content and Format

Each proposal must be accompanied by a bid deposit in the amount of $25,000.00. A separate bid deposit is required for each of the four (4) resource areas under consideration in this Call for Proposals. The bid deposit must be in the form of a certified cheque or money order payable to the Minister of Natural Resources. Deposits will be returned to unsuccessful bidders. The bid deposit will be returned to the successful proponent upon issuance of a Special License or Special Lease and receipt of the required reclamation security. The bid deposit will be forfeited to the Department of Natural Resources if the successful bidder does not obtain the corresponding mineral rights within one (1) year of the Department's acceptance of their proposal.

Each response to this Call for Proposals must contain sufficient detail to demonstrate that the proponent has the technical and financial resources to undertake and complete the proposed exploration, development and reclamation program. This information should include, as a minimum, the following:

(i) **Company / Project Management**

- Describe the management capacity of the proponent emphasizing experience in exploration, mining, marketing and obtaining environmental approvals for similar projects. Identification of the management team that will be responsible for administration of the project including administrative position responsibilities and individual qualifications and credentials (resumes) for each management position.

(ii) **Technical Management Team**

- Demonstrate the technical competency of the proponent to undertake the project including engineering, geological, geotechnical and environmental resources that will be utilized during the project life.

(iii) **Regulatory Approval Process**

- Demonstrate a clear understanding of the regulatory approval process for the review of mining projects including, but not limited to, mineral tenure (license and lease), environmental approvals and occupational health and safety review.

(iv) **Community Relations**

- Provide a description of the approach for establishing relations with the community and gaining community support for the project. Include the proponents experience and current initiatives with respect to community relations.

(v) **Exploration / Development Proposal**

- Provide enough detail to demonstrate that the proponent has a clear comprehension of the exploration, development and reclamation project. There is the potential for a wide range of proposals to be submitted. Bidders should elaborate on issues that are relevant and appropriate to describe their proposal.

Information submitted should include, but not be limited to, the following:

1. Project location - A description of the project area including terrain, infrastructure, natural habitats, local and planned developments and any other information or constraints important to the project.

2. Coal resource evaluation - Interpret existing geological resource information showing quantity and quality and any other related information that should be considered in the resource assessment. Classification of resources in any proposal should be based on accepted industry standards and practices used to determine economic coal deposits.

3. Exploration plan - Outline requirements for further exploration (if required) to evaluate coal resources and reserves. Bidders who

propose to carry out exploration or bulk sampling programs must include a description of the work program, and fully document the cost for the proposed work program.

4. Land access - Identify land ownership for all properties that access rights will be required to undertake the project. Outline specific issues related to property access that will need to be addressed prior to undertaking the project. Provide a strategy for gaining land owner approvals.
(Note: Submissions prepared in response to this Call for Proposals should only identify lands that will be affected by the project. Proponents are directed not to enter into discussions or negotiations with landowners in respect of a land access agreement during preparation of a response to this Call. Only the successful bidder should contact a land owner to initiate discussions for land access rights.)

5. Project development and operating schedule - Provide an overall schedule for the life of the project through to final reclamation. Identify daily operational requirements with respect to expected hours of work and any seasonal variations in the schedule.

6. Coal extraction plan - Provide a plan which includes a description of the site and proposed access to the site; mine infrastructure including environmental control measures; description of mining methods and equipment; expected coal qualities and quality control/assurance program; expected production rates and stripping ratios; number of employees/positions; and plans showing projected annual extraction and ultimate pit layout.

7. Coal processing plan (if required) - Identify any proposed coal processing / preparation technology and include a description of the processing plant and its location in relation to other mine infrastructure. Provide an environmental management plan for any plant by-products.

8. Environmental management plan - Identify and document significant environmental issues that the proponent believes will need to be considered and describe how the issues can be addressed within the context of the proposed undertaking.

9. Reclamation approach / Final land use options - Describe reclamation plans for mining areas, including the sequence and timing of reclamation. Identify future land use options for the area affected by the project.

10. Coal market - Identify market(s) for coal production from the project. Include any contracts / commitments from prospective buyers that would substantiate this market and / or a strategy for marketing the coal production.

11. Financial projections - Identify the financial resources of the proponent to execute the proposal. Outline capital investment required for the project and proposed source of funds. Sufficient detail is required to demonstrate the financial viability of the proponent's proposal including security bonding for environmental liabilities during development, operating and reclamation phases.

12. Other considerations (specify) - Provide information on any other issues that the proponent wishes to have considered. This could include tangible or appropriate intangible benefits to the local area or Province.

(vi) Statement of Project Impacts and Benefits

The proponent must provide a statement of the anticipated impacts and benefits the project will have on the local area and to the Province. This statement can include, but should not be limited to, environmental, financial, employment, economic and social impacts during active operations and following completion of the project.

(vii) Statement of Past Practice in Mining

The proponent is required to include a statement of disclosure outlining all other mining (or similar) projects the company has undertaken directly or in participation with other companies. This statement must outline the company's history of compliance with applicable legislation during the development, operating and reclamation phases of similar projects. A description of any non-compliance orders / determinations and the corrective actions to resolve all such orders against the company is required.

NOTE

All reports and plans developed in response to this ***Call for Proposals*** *must be prepared in accordance with the author's qualifications as set forth in Section 77 of the Mineral Resources Regulations.*

2.3 Submission of Proposals

Proposals must be submitted in sealed envelopes which are clearly identified on the exterior with the following text: *"Proposal for Exploration and Development of Selected Areas of the Sydney Coalfield, Cape Breton County"* and identify the specific resource area related to the proposal (for example, *"Point Aconi Area"*). Proposals must be received by the Registrar of Mineral and Petroleum Titles at the following address prior to 16:00 AST on the 5th day of March, 2004:

Registrar of Mineral and Petroleum Titles
Nova Scotia Department of Natural Resources
3rd Floor, Founders Square
1701 Hollis Street
P. O. Box 698
Halifax, Nova Scotia B3J 2T9

Proposals received after the closing date and time will not be considered.

Proposals sent by facsimile or other electronic means will not be accepted.

2.4 Proposal Information Package

The Nova Scotia Department of Natural Resources has compiled an Information Package for each of the four (4) resource areas in this Call for Proposals. The Information Package(s) contain the documents and reports referenced in Appendices A, B, C and D that provide information on the four (4) coal resource areas under consideration. Proponents can view the Information Package(s) at the Department of Natural Resources Library at 1701 Hollis Street, 3rd floor, Halifax or at the Nova Scotia Department of Natural Resources Regional Office in Coxheath by contacting the following:

Regional Geologist	Phone
Don J. MacNeil	(902) 563-3370

Interested parties can also request a copy of the Information Packages for each of the four (4) resource areas at an approximate cost of between $50.00 and $250.00 per package depending on the cost of reproduction. Purchase and arrangements for pick-up or delivery of the information packages should be made by contacting the Nova Scotia Department of Natural Resources Library in Halifax at (902) 424-8633.

2.5 Proposal Evaluation

A Review Panel will be assigned to make recommendations on the relative merits of the proposals that meet the minimum information requirements and that indicate a proponent's capability to successfully proceed to the exploration, development and reclamation of the resources. All proposals will be evaluated on the criteria as set out in *Section 2.2 Proposal*

Content and Format of this Call for Proposals. Appendix E - "Sydney Coalfield Tender Evaluation Guide" sets out the criteria and the relative weighting for each criteria.

The Department of Natural Resources reserves the right to reject any or all proposals or to carry out negotiations with any one or more proponents on any aspect of any proposal as the Department considers appropriate.

2.6 Announcement of Results of Call

The results of this Call for Proposals will be announced within 90 days of the closing date.

2.7 Requirements of Successful Proponent

The successful proponent(s) must meet the requirements of the Mineral Resources Act when applying for a Special Licence or for a Special Lease. Proponents must obtain a Special Licence or Special Lease within one (1) year of being notified as the successful bidder or will forfeit both their bid deposit and their opportunity to obtain mineral rights to the resource area for which they were successful bidders.

Issuance of a Special Licence and Special Lease is subject to the approval of the Governor in Council as provided in Section 22 of the *Mineral Resources Act*. Acceptance of a proposal by the Minister of Natural Resources is not to be construed as an acknowledgement that the requirements of the *Mineral Resources Act* have been met or that a Special Licence and/or a Special Lease will be issued.

The successful proponent will be responsible for obtaining all approvals or permits required to carry out its proposal, including environmental approvals.

APPENDICES

A - POINT ACONI
B - BOULARDARIE ISLAND
C - BIRCH GROVE
D - BROUGHTON

Contents of Information Packages for each Resource Block

The Department of Natural Resources does not warrant the accuracy or completeness of the information provided in this Call for Proposals or the accompanying Information Packages. The Department of Natural Resources shall not be responsible for any loss, damage or injury, whether to persons or property, that may occur, be sustained or suffered as a result of, or as a consequence of, the use or reliance upon this information or any accompanying information. Users of this information should exercise caution and seek advice from competent persons familiar with the interpretation and evaluation of this information.

APPENDIX A

Selected Bibliography of Information on the Prince Mine Area, Point Aconi

This list has been compiled from known reports, maps, plans and publications related to the Prince Mine area surface coal resource area, however, further sources of information may exist within the Department of Natural Resources Library or through other sources. Proponents are advised to research the subject area themselves.

Reports

1. August 22, 2001; Memo - Prince Colliery - Near Surface Coal, 3 pages, 3 maps

2. May 21, 1975; Memorandum - Weekly Summary MacNeils Strip Mine - Pt. Aconi - May 5th to 10th , 3 pages, 1 maps

Maps / Plans

3. R.C. Boehner and P.S. Giles; 1986; Geological Map of the Sydney Basin, Cape Breton Island, Nova Scotia; Nova Scotia Department of Mines and Energy, 1:50,000, 1 map, Open File Map 86-1

4. March 8, 1976; Plan of Point Aconi Area showing Prince Mine, Surface Contours, Lease Areas and Approximate Outcrop of the Stubbart Seam; 1 map Scale 1 inch = 200 feet

5. September 17, 1974; Layout of Point Aconi Strip Mine (MacNeil Mine), 2 maps

6. Plan of Point Aconi Area, Shows pit locations; 1 map; Scale 1 inch = 400 feet

APPENDIX B
Selected Bibliography of Information on the Boulardarie Island Area

This list has been compiled from known reports, maps, plans and publications related to the Boulardarie Island area surface coal resource area, however, further sources of information may exist within the Department of Natural Resources Library or through other sources. Proponents are advised to research the subject area themselves.

Reports

1. David S. Robertson and Associates Limited; 1975, Assessment of Coal Reserves for Strip Mining at Point Aconi, Cape Breton, Nova Scotia; 32 pages, 5 maps, 95 drill hole sections, Open File Report ME 353

2. Montreal Engineering Company Limited; September 1978, Report on surface mining evaluation, Phase 1a Coal, Point Aconi, Cape Breton County, Nova Scotia; 63 pages, 4 maps; Assessment Report ME 1978-5

3. Nova Scotia Department of Mines and Energy; 1991; Surface Coal Deposit Inventory Report; selected excerpts

4. Nova Scotia Department of Mines and Energy, 1971, Report on Drilling Program January 1970 - May 1971, Open File Report ME 044

5. Nova Scotia Department of Mines and Energy, 1970, Pt. Aconi Project - Diamond Drill Logs, 68 pages

Maps / Plans

6. R.C. Boehner and P.S. Giles; 1986; Geological Map of the Sydney Basin, Cape Breton Island, Nova Scotia; Nova Scotia Department of Mines and Energy, 1:50,000, 1 map, Open File Map 86-1

7. December 14, 1980; Possible Strip Areas - Point Aconi, Florence and Cape Breton Counties; 4 inches to 1 mile; 1 map

APPENDIX C

Selected Bibliography of Information on the Birch Grove Area

This list has been compiled from known reports, maps, plans and publications related to the Birch Grove surface coal resource area, however, further sources of information may exist within the Department of Natural Resources Library or through other sources. Proponents are advised to research the subject area themselves.

Reports

1. Gillis, Kevin, K. S.; 1979, Report on the Exploration of the Spencer Seam, Sydney Coalfield, Nova Scotia; Nova Scotia Department of Mines and Energy, 12 pages, 5 maps; Open File Report 415

2. Gillis, Kevin, K. S.; 1982, Evaluation of the Spencer Seam for Near Surface Coal, Cape Breton County, Nova Scotia; Nova Scotia Department of Mines and Energy, 24 pages, 6 maps; Open File Report ME 524

3. MacNeil, D. J.; 1984, Coal Resource Potential of the Port Morien Area, Cape Breton County, Nova Scotia; Nova Scotia Department of Mines and Energy, 7 pages, 2 maps; Open File Report ME 584

4. Gillis, K. S.; 1979, Coal Inventory Survey, Preliminary Report on the Near Surface Coal Potential of Three Areas in the Sydney Coalfield, Nova Scotia; Nova Scotia Department of Mines and Energy, 74 pages, 5 maps; Open File Report ME 421

5. Montreal Engineering Company Limited for Cape Breton Development Corporation; 1970, General Order of Magnitude Cost Estimate for Strip mining the Gardiner, Emery, Spencer, Tracy and McDonald Lake Seams Along Outcrop; 46 pages; Open File Report ME 370

6. Nolan, White & Associates Ltd., January 15, 1980; Draft - Groundwater/Hydrology Study Spencer Coal Seam for NOVACO, 16 pages, 2 maps

7. MacNeil, S.B.; October 20, 1928; Prospecting Spencer Seam, Birch Grove, Nova Scotia; 7 pages, Call Number : 431013 , 10-C-13(00)

8. Nova Scotia Department of Mines and Energy, 1991, Surface Coal Deposit Inventory Report, selected excerpts

9. Gillis, K. S.; 1980, Assessment of the Sydney Coalfield for Near Surface Coal, Nova Scotia; Nova Scotia Department of Mines and Energy, 31 pages, 12 maps; Open File Report ME 462

10. Novaco; 1979 -1984; Spencer Project - miscellaneous correspondence, 9 pages

11. Hayes, A. O. and Bell, W. A. ; 1923; Memoir 133 No. 114 Geological Series; The Southern Part of the Sydney Coal Field, Nova Scotia; Department of Mines - Geologic Survey, pp 18 - 89

Maps / Plans

12. R.C. Boehner and P.S. Giles; 1986; Geological Map of the Sydney Basin, Cape Breton Island, Nova Scotia; Nova Scotia Department of Mines and Energy, 1:50,000, 1 map, Open File Map 86-1

13. McLean, T.S.; 1896, Copy of Geological Map of the Cow Bay Road, Dominion Coal Company.; Geological Survey of Canada, 1 plan

14. Dominion Coal Company Limited; Plan Showing Prospecting for Spencer Seam, Birch Grove; March 23, 1928

15. Hayes, A. O. and Bell, W. A. ; 1938; Sydney Sheet (East Half) Map 361A, Geological Map of the Sydney Basin, Cape Breton County, Nova Scotia; Department of Mines and Resources, 1 inch to 1 mile

16. Hayes, A. O. and Bell, W. A. ; 1938; Glace Bay Sheet (East Half) Map 362A, Geological Map of the Sydney Basin, Cape Breton County, Nova Scotia; Department of Mines and Resources, 1 inch to 1 mile

APPENDIX D
Selected Bibliography of Information on the Broughton Area

This list has been compiled from known reports, maps, plans and publications related to the Broughton area surface coal resource area, however, further sources of information may exist within the Department of Natural Resources Library or through other sources. Proponents are advised to research the subject area themselves.

Reports

1. Swartzman, E. and Tibbetts, T. E.; 1954, Coal from Four Star Mine, Tracey Seam, Sydney Area, Nova Scotia; Department of Mines And Technical Surveys, 50 pages, 1 map; Open File Report ME 717

2. George Wimpey Canada Limited, 1978, Report on proposed opencast mining of the Tracy Seam, Cape Breton, Nova Scotia: assessment of amount and quality of coal; 27 pages, 1 map; Open File Report ME 1978-1

3. Hacquebard, Peter A.; 1952, A Petrographic Investigation of the Tracy Seam of the Sydney Coalfiled, Nova Scotia; pp 293-309 Reprinted from Second Conference on the Origin and Constitution of Coal, Crystal Cliffs, Nova Scotia, June 1952; Miscellaneous Report H005

4. Gillis, K. S.; 1979, Report of the Exploration of the Tracy Seam, Sydney Coalfield, Nova Scotia; Nova Scotia Department of Mines and Energy, 30 pages, 5 maps; Open File Report ME 420

5. Gillis, K. S.; 1980, Assessment of the Sydney Coalfield for Near Surface Coal, Nova Scotia; Nova Scotia Department of Mines and Energy, 31 pages, 12 maps; Open File Report ME 462

6. MacNeil, D. J.; 1983, Evaluation of Near-surface Coal Resource, Tracy Seam, Broughton; Nova Scotia Department of Mines and Energy, 26 pages; Open File Report ME 1983-3

7. Nova Scotia Department of Mines and Energy, 1991, Surface Coal Deposit Inventory Report, selected excerpts

8. Beaver Coal Co. Ltd, 1955, Analysis of Commercial Coal Samples - Beaver Mine Tracey Seam, Broughton NS; small plan with drill hole locations; Call Number : 10-C-22(00)

9. Gillis, K. S.; 1979, Coal Inventory Survey, Preliminary Report on the Near Surface Coal Potential of Three Areas in the Sydney Coalfield, Nova Scotia; Nova Scotia Department of Mines and Energy, 74 pages, 5 maps; Open File Report ME 421

10. Hayes, A. O. and Bell, W. A. ; 1923; Memoir 133 No. 114 Geological Series; The Southern Part of the Sydney Coal Field, Nova Scotia; Department of Mines - Geologic Survey, pp 18 - 89

Maps / Plans

11. R.C. Boehner and P.S. Giles; 1986; Geological Map of the Sydney Basin, Cape Breton Island, Nova Scotia; Nova Scotia Department of Mines and Energy, 1:50,000, 1 map, Open File Map 86-1

12. February 13, 1981; Tracey Seam Outcrop, 1 Map, 4 inches = 1 mile, shows drill hole sections with coal partings

13. Plan Showing Lands of Beaver Coal Co. and Hygeia Steamship Company, Broughton Area; November 11, 1968; scale 1 inch = 400 feet

14. Hayes, A. O. and Bell, W. A. ; 1938; Sydney Sheet (East Half) Map 361A, Geological Map of the Sydney Basin, Cape Breton County, Nova Scotia; Department of Mines and Resources, 1 inch to 1 mile

15. Hayes, A. O. and Bell, W. A. ; 1938; Glace Bay Sheet (East Half) Map 362A, Geological Map of the Sydney Basin, Cape Breton County, Nova Scotia; Department of Mines and Resources, 1 inch to 1 mile

APPENDIX E

Sydney Coalfield Tender Evaluation Guide for Review Panel

Criteria	Weight
1 Company / Project Management	5
2 Technical Management Team	5
3 Regulatory Approval Process	10
4 Community Relations Plan	10
5 Exploration / Development Proposal	50
6 Statement of Project Impacts and Benefits	10
7 Statement of Past Practice in Mining	10
Total	100
8 Other benefits *Specify*	10